

Portland Harbor Source Control Update

Jim Anderson
DEQ Portland Harbor Section Manager
April 2012

http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/Index.htm



Portland Harbor Agencies' Roles

Portland Harbor MOU Signed 2/01

- Identifies <u>roles & responsibilities</u> of EPA & DEQ
 - EPA Lead Agency overseeing in-water work
 - DEQ Lead Agency overseeing upland Source Control
- Establishes inter-governmental <u>project</u> <u>team</u>
 - EPA, DEQ, 6 tribal governments, & 3 Natural Resource Trustee agencies



Objective of PH Source Control

 Control upland sources posing unacceptable <u>risk</u> to fish & other aquatic life

• Prevent <u>recontamination</u> from uncontrolled upland sources



Focus of Source Control

- Implement effective Source Control Measures at all <u>High Priority sites</u> by PH Record of Decision (late-2014)
- Complete Source Control
 Evaluations at all Medium & Low
 Priority sites by 2013
- **Stormwater**



Contaminant Transport Pathways

- Overland run-off & bank erosion
 - Soil to sediment
- Stormwater
 - Water & solids to river/sediment
- Groundwater
 - Dissolved & product (e.g., gasoline)
 to river/sediment



3 types of Source Control Decisions

- 1) Is there a source & complete contaminant <u>pathway</u> to the river?
- 2) What Source Control Measure is needed to control the source?
- 3) Has the Source Control Measure adequately controlled the source?

http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/docs/PortlandHarborMap.pdf





Source Control Status

- 26 Completed-Work Sites
- 65 Active Upland Projects
- 15 High Priority Sites
- 27 Medium Priority Sites
- 23 Low Priority Sites



Interim Source Control Measures

- 15 High Priority Sites
 - Interim measures implemented at 11 sites
- 27 Medium Priority Sites
 - Interim measures implemented at 16 sites
- 23 Low Priority Sites
 - Interim measures implemented at 14 sites



- 1) Evraz Oregon Steel Mills
 - <u>Stormwater</u>- end-of-pipe treatment
 - Riverbank erosion- permitting for bank removal & stabilization
- 2) Premier Edible Oil
 - <u>Groundwater</u>- feasibility study for groundwater Source Control Measure



- 3) Burgard Industrial Park
 - Stormwater- ongoing Source Control Evaluations
- 4) Schnitzer Steel
 - <u>Stormwater</u>- end-of-pipe treatment



- 5) Kinder Morgan Linnton
 - Groundwater- hydraulic containment & pump-&-treat system
- 6) Arco/BP
 - Groundwter- hydraulic containment & pump-&-treat system



15 High Priority Sites

7) Exxon/Mobil

Groundwater- hydraulic containment
 & pump-&-treat system

8) Gasco

- <u>Groundwater</u>- hydraulic containment & pump-&-treat system to be installed late 2012
- <u>Riverbank erosion</u>- deferred to in-water Early Action



- 9) Siltronic (Gasco waste)
 - Groundwater- hydraulic containment & pump-&-treat system to be installed late 2012
- 10) Siltronic (solvents)
 - <u>Groundwater</u>- enhanced in-situ bioremediation in-place



- 11) Rhone-Poulenc
 - <u>Groundwater</u>- pilot-test hydraulic containment
- 12) Willbridge
 - Groundwater- hydraulic containment & pump-&-treat system



- 13) Arkema
 - Groundwater- hydraulic containment & pump-&-treat system to be installed late 2012
 - <u>Stormwater</u>- end-of-pipe treatment to be installed in 2012
 - Riverbank erosion- deferred to in-water Early Action



15 High Priority Sites

14) Gunderson

- Groundwater- hydraulic containment, pump-&-treat system, & source area treatment system in-place
- <u>Stormwater</u>- Source Control Evaluation to be completed in 2012
- <u>Riverbank erosion</u>- Source Control Evaluation to be completed in 2012



15 High Priority Sites

15) City Stormwater Outfalls

- Stormwater characterization & source identification in <u>39 municipal basins</u>
- Identified-sources work with either the City or DEQ to <u>reduce contaminant load</u> to stormwater thru Best Management Practices (BMPs) &/or Source Control Actions
- <u>Basin characterizations</u> expected to be completed in 2012